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Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 09/997,030 Filing Date TRANSMITTAL 11/30/2001 First Named Inventor FORM Volodymyr V. Kindratenko ET AL. (to be used for all correspondence after initial filing) Art Unit 2671 **Examiner Name** Enrique L. Santiago Attorney Docket Number Total Number of Pages in This Submission 00-444 ENCLOSURES (Check all that apply) After Allowance communication Assignment Papers Fee Transmittal Form to Technology Center (TC) (for an Application) Appeal Communication to Board of Fee Attached Drawing(s) Appeals and Interferences Appeal Communication to TC Licensing-related Papers Amendment/Reply (Appeal Notice, Brief, Reply Brief) After Final Petition **Proprietary Information** Petition to Convert to a Status Letter Affidavits/declaration(s) Provisional Application Power of Attorney, Revocation Other Enclosures(s) (please Extension of Time Request Identify below): Change of Correspondence Address **Express Abandonment Request** Terminal Disclaimer Request for Certificate of Request for Refund Information Disclosure Statement Correction Certified Copy of Priority CD, Number of CD(s) **Documents** Certificate Response to Missing Parts/ Remarks Incomplete Application SEP 1 6 2005 Response to Missing Parts under 37 CFR 1.52 or 1.53 of Correction SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Andrew J. Ririe, Registration No. 45,597 Individual name Signature September 8, Date **CERTIFICATE OF MAILING** I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope address to:

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer,

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Andrew J. Ririe

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09/08/2005

Date

PATENT

WATER	DEMP		
In re United States Letters)	Group Art Unit: 2671
Patent No.: 6,897,863 <i>B</i> 2)	Examiner: Enrique L. Santiago
Granted: May 24, 2005)	
Inventor: Volodymyr V. Kindratenko et al.)	
Title:	SYSTEM AND METHOD FOR HIDDEN OBJECT REMOVAL)	
Attorney Docket No.: 00-444			

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Peoria, Illinois 61629-6490 September 8, 2005

Attention Certificate of Corrections Branch Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR §1.322

Sir:

The patentee, Caterpillar Inc., of the above-referenced patent requests the issuance of a Certificate of Correction under 37 C.F.R. § 1.322. The mistakes were made by the Patent and Trademark Office. In particular, the amendment of October 20, 2004, was not reflected in the version of the claims included in the issued patent.

Two copies of Form PTO-1050 are submitted herewith on the desired corrections.

Respectfully submitted,

Andrew J. Ririe

Registration No. 45,597

Caterpillar Inc.

Telephone: (309) 636-1974

AJR:dmc Enc.

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.:

6,897,863 *B*2

Page 1 of 3

APPLICATION NO.: 09/997,030 ISSUE DATE:

May 24, 2005

INVENTOR(S):

Volodymyr V. Kindratenko et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please correct the Claims as follows:

Claim 1, Column 10, Line 44, delete "hidden" and insert --occluded--

Claim 1, Column 10, Line 56, delete "and"

Claim 1, Column 10, Line 60, delete "grid." and insert --grid; and

identifying at least one occluded portion of the image based on the identified second plurality of n-dimensional components.--

Claim 3, Column 10, Line 64, after "components" delete "." and insert -- and excluding the at least one occluded portion .--

Claim 4, Column 10, Line 65, delete "The method of claim 1, wherein said identifying further includes:" and insert -- A computer-implemented method for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater than 1, said method comprising:

generating an n-dimensional image of an object, said image including a first plurality of n-dimensional components that define a shape and orientation of the image and a plurality of parts located inside the image;

superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a lattice structure such that each pixel of said grid corresponds to one of a plurality of vertices of an m-sided cell, wherein each side of said m-sided cell includes at least four vertices: and

identifying a second plurality of n-dimensional components located on an outer perimeter of said image that abut or overlap at least one side of one m-sided cell in said grid, wherein said identifying includes:--

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.:

6.897.863 B2

Page 2 of 3

APPLICATION NO.: 09/997,030 ISSUE DATE:

May 24, 2005

INVENTOR(S):

Volodymyr V. Kindratenko et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 10, Column 11, Line 38, delete "hidden" and insert --occluded--

Claim 10, Column 11, Line 53, delete "and"

Claim 10, Column 11, Line 57, delete "grid." and insert --grid; and

a module identifying at least one occluded portion of the image based on the identified second plurality of n-dimensional components.--

Claim 12, Column 11, Line 61, delete "components." and insert -- components and excluding the at least one occluded portion.--

Claim 13, Column 11, Line 62, delete "The apparatus of claim 10, wherein said module for identifying further includes the capability to:" and insert -- An apparatus for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater than 1, said apparatus comprising:

- a network device having a memory containing a program that further includes:
- a module for generating an n-dimensional image of an object, said image including a first plurality of n-dimensional components that define a shape and orientation of the image and a plurality of parts located inside the image;
- a module for superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a lattice structure such that each pixel of said grid corresponds to one of a plurality of vertices of an m-sided cell, wherein each side of said m-sided cell includes of at least four vertices; and
- a module for identifying a second plurality of n-dimensional components located on an outer perimeter of said image that abut or overlap at least one side of one m-sided cell in said grid, wherein said module for identifying further includes the capability to:--

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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.:

6.897.863 B2_

Page 3 of 3

APPLICATION NO.: 09/997,030 ISSUE DATE:

May 24, 2005

INVENTOR(S):

Volodymyr V. Kindratenko et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 19, Column 12, Line 53, delete "and"

Claim 19, Column 12, Line 57, delete "grid." and insert --grid; and identifying at least one hidden portion of the image based on the identified second plurality of n-dimensional components.--

Claim 21, Column 12, Line 62, delete "components." and insert --components, excluding the at least one hidden portion .--

Claim 22, Column 12, Line 63, delete "The" and insert -- A--

Claim 22, Column 12, Line 63, delete "of claim 19, wherein said identifying further includes:" and insert --having stored thereon machine executable instructions, the execution of said instructions adapted to implement a method for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater than 1, said method comprising: generating an n-dimensional image of an object, said image including a first plurality of n-dimensional components that define a shape and orientation of the image and a plurality of parts located inside the image;

superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a lattice structure such that each pixel of said grid corresponds to one of a plurality of vertices in an m-sided cell, wherein each side of said m-sided cell includes at least four vertices; and

identifying a second plurality of n-dimensional components located on an outer perimeter of said image that abut or overlap at least one side of one m-sided cell in said grid, wherein said identifying includes:--

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